

COFFS HARBOUR CITY COUNCIL



**DEVELOPMENT SPECIFICATION
DESIGN**

1193 Guide posts

Version 1 01 January 2009

1193 GUIDE POSTS

1 SCOPE AND GENERAL

1.1 SCOPE

The work to be executed under this worksection consists of the setting out, supply of all materials and erection of guide posts at the locations shown on the Drawings or as directed by the Superintendent in areas where streetlighting is not provided.

1.2 QUALITY

Requirements for quality control and testing, including maximum lot sizes and minimum test frequencies, are given in 0161 *Quality (Construction)*.

1.3 REFERENCED DOCUMENTS

The following documents referred to in this worksection shall be deemed as the latest edition of the Australian Standards, including amendments and supplements.

Worksection

0161 *Quality (Construction)*

1101 *Control of traffic*

Standards

AS 1604	Specification for preservative treatment
AS 1604.1	Sawn and round timber
AS/NZS 1906	Retroreflective materials and devices for road traffic control purposes
ASNZS 1906.2	Retroreflective devices (non-pavement application)
AS 2082	Timber—Hardwood—Visually stressgraded for structural purposes

1.4 MATERIALS

General

Guide posts shall be of timber or, as an alternative, the Superintendent may approve of a proprietary metallic or flexible (driveable or non-driveable) post.

The surface of all posts shall have a gloss or semi-gloss white finish. The surface shall be smooth and easily cleaned.

Proprietary posts shall be minimum 1350 mm in length and shall have one face of 100 mm width.

Timber posts

Timber posts shall be cut from Select Grade hardwood and conform with AS 2082. All surfaces shall be smooth and free from obvious saw marks.

The posts shall be of rectangular cross-section having dimensions of 100 mm × 50 mm and shall be 1,400 mm in length.

The tops of the guide posts shall be sloped so that one 100 mm edge is 10 mm lower than the opposite edge.

Proprietary posts

Where a proprietary metallic or flexible guide post is proposed, the Contractor shall supply details of the proposed guide post including the manufacturer's recommended installation procedure, technical specifications and test certificates for consideration by the Superintendent.

The test certification shall address post strength, flexibility, impact and heat resistance and durability.

This action constitutes a HOLD POINT.

The Superintendent's approval of the submitted details and acceptance of the nominated guide post type and supplier is required prior to the release of the hold point.

Delineators

Corner-cubed delineators, conforming to AS 1906.2 shall be attached to each post.

The delineators shall be neither less than 80 mm nor more than 85 mm diameter.

2 CONSTRUCTION

2.1 CONTROL OF TRAFFIC

Control of traffic shall comply with 1101 *Control of traffic*.

All necessary steps shall be taken to prevent people and stock from stepping into the post holes during the erection of the guide posts.

2.2 LOCATION

Guide posts shall be erected at the locations shown on the Drawings or as directed by the Superintendent.

Where the shoulder is in embankment, in cutting or at natural surface level, the guide posts shall be placed near the outer edge of the shoulder and at a uniform distance, minimum 1 m, from the pavement edge line.

Where the shoulder is located in a cutting, the guide posts shall be placed on the road pavement side of the table drain in such a manner as not to impede the flow of water in the drain.

2.3 UNDERGROUND SERVICES

Underground services laid in proximity to the guide posts shall be located prior to erection of posts, all care shall be taken not to damage such services.

2.4 PROTECTIVE TREATMENT OF TIMBER GUIDE POSTS

Creosote

The portion of the guide post below ground level shall be treated with creosote, such that the penetration and retention of creosote preservative conforms with the requirements for minimum Hazard Class H4 treatment in accordance with AS 1604.1.

Painting

All timber above ground level shall be painted with pink primer and any holes, cracks, or other surface imperfections in the timber, shall be stopped with white putty.

This work shall be followed by painting with a white undercoat and a white enamel finishing coat.

Dry surfaces

Painted surfaces shall be thoroughly dry before the second coat is applied.

Paints shall be handled and applied in accordance with the manufacturer's directions.

Paint quality

All paints shall be of the best quality, durable and suitable for exterior application on timber surfaces.

2.5 ERECTION OF GUIDE POSTS

Positioning

Guide posts shall be set vertically in the ground to a depth of approximately 500 mm. In order to offset shoulder irregularities this depth shall be varied so as to give uniform display of guide posts to a height of approximately 900 mm above ground level, with the tops evenly graded.

Each guide post shall be erected with the 100 mm axis at right angles to the centre line of the road.

Vertical alignment

Allowance shall be made in the height of guide posts above the ground for the effects of superelevation and other road geometry in order to keep the guide posts within the range of the beam of vehicle headlights.

Backfilling

Backfilling shall be compacted in layers of depth not more than 150 mm for the full depth of the guide posts up to ground level.

The density of the compacted backfilling shall not be less than that of the adjacent undisturbed ground.

Guide posts shall be firm in the ground to the satisfaction of the Superintendent.

Proprietary guideposts

Proprietary guideposts, when installed in the ground in accordance with the recommendations of the manufacturer, shall resist overturning, twisting and displacement from wind and impact forces.

2.6 DELINEATORS

Fixing

'Corner Cubed' delineators, complying with AS 1906.2, shall be attached to each guide post using one way, anti-theft screws. In the case of proprietary posts, the delineators shall be glued or otherwise fastened to the post in such a manner that they are not dislodged or rendered inactive under vehicular impact.

Position

The delineators shall be mounted so that the top of the reflector is 50 mm below the top of the guide post.

Arrangement

The delineators shall be so arranged that drivers approaching from either direction will see only red delineators on their left side and white delineators on their right side.

3 MEASUREMENT AND PAYMENT

3.1 MEASUREMENT

Payment shall be made for all the activities associated with completing the work detailed in this worksection on a schedule of rates basis in accordance with Pay Item 1193.1.

A lump sum price shall not be accepted.

If any item, for which a quantity of work is listed in the Schedule of Rates, has not been priced by the Contractor, it shall be understood that due allowance has been made in the prices of other items for the cost of the activity which has not been priced.

Traffic control is measured and paid in accordance with specification 1101 *Control of traffic*.

3.2 PAY ITEMS

1193.1 Guide posts

The unit of measurement shall be 'each' guide post.

The schedule rate shall cover all costs associated with the erection of each post, including supply of post, erection, painting (if applicable), and supply and fixing of corner-cubed delineators.